

Intellectual Property Office of Singapore

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In Reply Please Quote Our Reference

Your Ref

: LPN/LWC/NJ/K.2006004814

Our Ref

: 2006036792/070802/TMMHO/9737

Date

: 02/08/2007

Writer's Direct Line: 63302748

ALLEN & GLEDHILL

#28-00

ONE MARINA BOULEVARD

SINGAPORE 018989

Dear Sir,

Singapore Patent Application No.: 200603679-2

Title of invention: EXPOSURE APPARATUS, EXPOSURE METHOD, DEVICE PRODUCING

METHOD, AND OPTICAL COMPONENT

Applicant(s): NIKON CORPORATION (JP)

INVITATION TO RESPOND TO WRITTEN OPINION

We forward with this letter a copy of the Search Report and Written Opinion drawn up by the Examiner in connection with your request for a Search and Examination Report.

You are invited to respond to the opinion by submitting:

(a) Written submissions or arguments disagreeing with the Examiner's opinion and/or

(b) An amendment of the specification of the application.

If you intend to respond, the response must be filed within 5 months from the date of this letter. You are also advised to inform us early if you do not intend to respond.

The Examiner will proceed to establish the Examination Report if no response is received by the end of the prescribed period.

If you have any further queries, please do not hesitate to contact the undersigned.

Thank you.

Yours faithfully,

Muhammad Haramain Osman for REGISTRAR OF PATENTS SINGAPORE







AUSTRALIAN PATENT OFFICE SEARCH REPORT

Applicant's or agent's file reference LPN/LWC/NJ/K.2006004814		
Application No.	Application Filing Date (day/month/year)	(Earliest) Priority Date (day/month/year)
•	3 December 2004	3 December 2003
SG 200603679-2 Applicant NIKON CORPORATION		
This search report consists of a total of 5 It is also accompanied by a	sheets. copy of each prior art document cited in this report.	
1. Certain claims were found	I unsearchable (See Box I)	
2. X Unity of invention is lacking	•	
The application contains di of the sequence listing	sclosure of a nucleotide and/or amino acid sequence	listing and the search was carried out on the basis
filed with the applica	tion .	
	icant separately from the application,	
but not accompas filed	panied by a statement to the effect that it did not includ	e matter going beyond the disclosure in application
4. With regard to the title,	X the text is approved as submitted by the applica	nt.
•	the text has been established by this Office to re	ead as follows:
With regard to the abstract,	X the text is approved as submitted by the applica	ant
	the text has been established by this Office as i	t appears in Box III
6. The figure of the drawings to b	e published with the abstract is Figure No. 7	•
	X as suggested by the applicant.	
	because the applicant failed to suggest a figure	·
	because this figure better characterises the inve	ention .
	None of the figures	•

SEARCH REPORT

Application No.

SG 200603679-2

A. CLAS	SIFICATION OF SUBJECT	MATTER				
According to Inte	ernational Patent Classification (I	PC)	٠.	•	·	
Int. Cl.	•	•		•		
H01L 21/027	(2006.01) G02B 1/10	(2006.01) G	03F 7/20 (2006.01)			
	DS.SEARCHED .					
Minimum docum	nentation searched (classification :	system followed by classi	fication symbols)			
•			:	•		
Documentation s	searched other than minimum doc	umentation to the extent t	that such documents are	included in the fields search	ed .	
	s of corresponding PCT Ap					
Electronic data b	ease consulted during the search (i	name of data base and, wi	here practicable, search t	erms used)		
					<u> </u>	
C. DOCU	JMENTS CONSIDERED TO B					
Category*	Citation of document, with in	dication, where approp	oriate, of the relevant p	passages	Relevant to claim No.	
	JP 2004-207711 A (NIKO	N CORP.) 22 July 2	004	•••	1-51	
P,X	Abstract & paragraphs 00: See machine translation: [36-0038	- 2007-06-151. Retri	eved	1-31	
	from the Interriet	•		•		
•	http://www4.ipdl.inpit.go.	jp/Tokujitu/PAJdeta	il.ipdl?N0000=60&	N0120=01&N2001=		
	2&N3001=2004-207711	•			·	
	US 2003/0139620 A1 (Y/	AMAGUCHI ET AL	.) 24 July 2003		52-56	
: X	paragraphs 0056, 0069, 0	10 / 8 & 00 63	•	•		
X Fu	urther documents are listed in t	the continuation of Box	(C	See patent family annex		
* Special	categories of cited documents:	e art "T" late:	r document published aft	er the international filing de	ate or priority date	
"A" docume which is	ent defining the general state of the sont considered to be of particular	r and	not in conflict with the	application but cited to unde	erstand the principle	
relevano	c e .	, or t	heory underlying the inv	ention ance; the claimed invention	cannot be	
"E" earlier a	application or patent but published international filing date	con	sidered novel or cannot l	be considered to involve an	inventive step	
		•	when the document is taken alone document of particular relevance; the claimed invention cannot be			
docume	ent which may throw doubts on pr or which is cited to establish the	COTI	sidered to involve an inv	entive step when the docum	nent is combined	
publica	tion date of another citation or ot	her special with	h one or more other such erson skilled in the art	documents, such combinat	ion being obvious to	
"O" docume	(as specified) ent referring to an oral disclosure,		cument member of the sa	me patent family	•	
"P" docume	ion or other means ent published prior to the internat t later than the priority date claim	ional filing ed				
Date of submis	sion of the request to the	Date of completion of the search report		Date of mailing of the search report		
Australian Pate		20 June 2007		2 8 JUN	2007	
25 May 200		20 3000 2007	Authorised officer			
Name and mail				•		
PO BOX 200, E-mail address	N PATENT OFFICE WODEN ACT 2606, AUSTRA pct@ipaustralia.gov.au 61 2 62853929	LIA 	RAJEEV DESHM	1UKH		

SEARCH REPORT

Application No.

SG 200603679-2

ategory*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 10-303114 A (NIKON CORP.) 13 November 1998 Abstract & paragraphs 0010, 0017 See machine translation: [online], [retrieved on 2007-06-15]. Retrieved from the Internet:	

SEARCH REPORT

PATENT FAMILY MEMBERS

Application No.
SG 200603679-2

	Document Cited in Search Report	•	•	Pater	nt Family Member		
JΡ	2004207711°	. AU	2003289271	ĊN	1723539	EP	1571698
	•	KR	2005008406	US.	2005237504	US	2006098178
		US	2006132736	U.S	2006274294	US	2007035710
	•	WO.	2004053956		•		
US	2003139620	EP	1300433	JP	2003238577	KR	2003002949
		US	7196212				
JP	10303114		•				
JP	11176727						

to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.

END OF ANNEX

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Application No.

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This search report has not been established in respect of certain claims for the following reasons: Claims Nos. because they relate to non-patentable subject matter (sections 13 and 16) not required to be searched by this Office, namely:
because they relate to non-patentable subject matter (sections 13 and 16) not required to be searched by this Office,
2. Claims Nos.
because they relate to parts of the application that does not comply with the prescribed requirements (sections 25(4) and 25(5)) to such an extent that no meaningful search can be carried out, specifically:
Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This Office found multiple inventions in this application, as follows:
The application does not comply with the requirements of unity of invention because it does not relate to one invention or to a group of inventions so linked as to form a single inventive concept. In coming to this conclusion this Office has found there are two inventions:
1. Claims 1-51 are directed to a liquid immersion exposure device for transferring a pattern onto the substrate by using a projection optical system. It is considered that the liquid immersion exposure for a substrate comprises a first "pecial technical feature".
2. Claims 52-56 are directed to the structure of an optical part. It is considered that the optical part comprises a second separate "special technical feature".
Since the abovementioned groups of claims do not share either of the technical features identified, a "technical relationship" between the inventions, does not exist. Accordingly, the application does not relate to one invention or to a single inventive concept. Since, the search for the second invention was done with a negligible additional effort over that for the first one; all claims 1-56 were examined in establishing this report.
}
Accordingly, this Office is reporting only on the main invention of claims , or